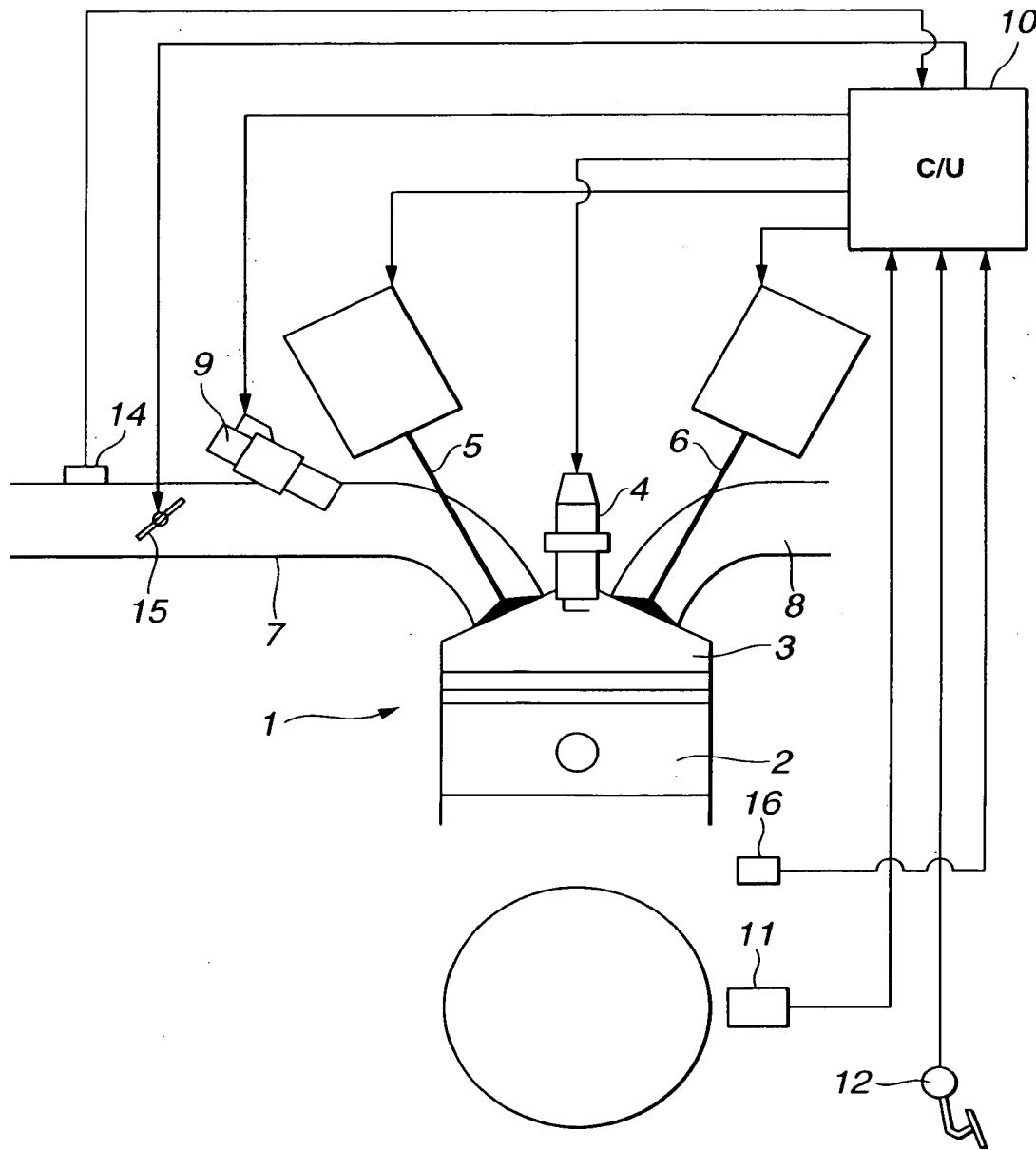


APPROVED	O.G. FIG.
BY	CLASS
DRAFTERMAN	SUBCLASS

Title: INTERNAL EGR QUANTITY  
ESTIMATION, CYLINDER INTAKE AIR  
QUANTITY CALCULATION, VALVE TIMING  
CONTROL, AND IGNITION TIMING CONTROL  
Inventor(s): Takao KAWASAKI et al.  
Appl. No.: Unknown

**FIG.1**

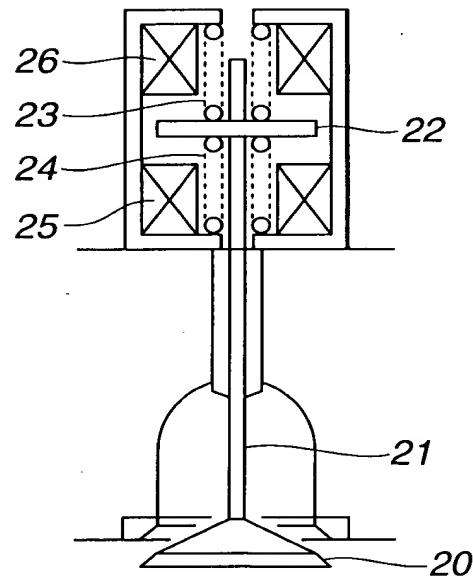


09091238870-002604

APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

Title: INTERNAL EGR QUANTITY  
ESTIMATION, CYLINDER INTAKE AIR  
QUANTITY CALCULATION, VALVE TIMING  
CONTROL, AND IGNITION TIMING CONTROL  
Inventor(s): Takao KAWASAKI et al.  
Appl. No.: Unknown

## FIG.2

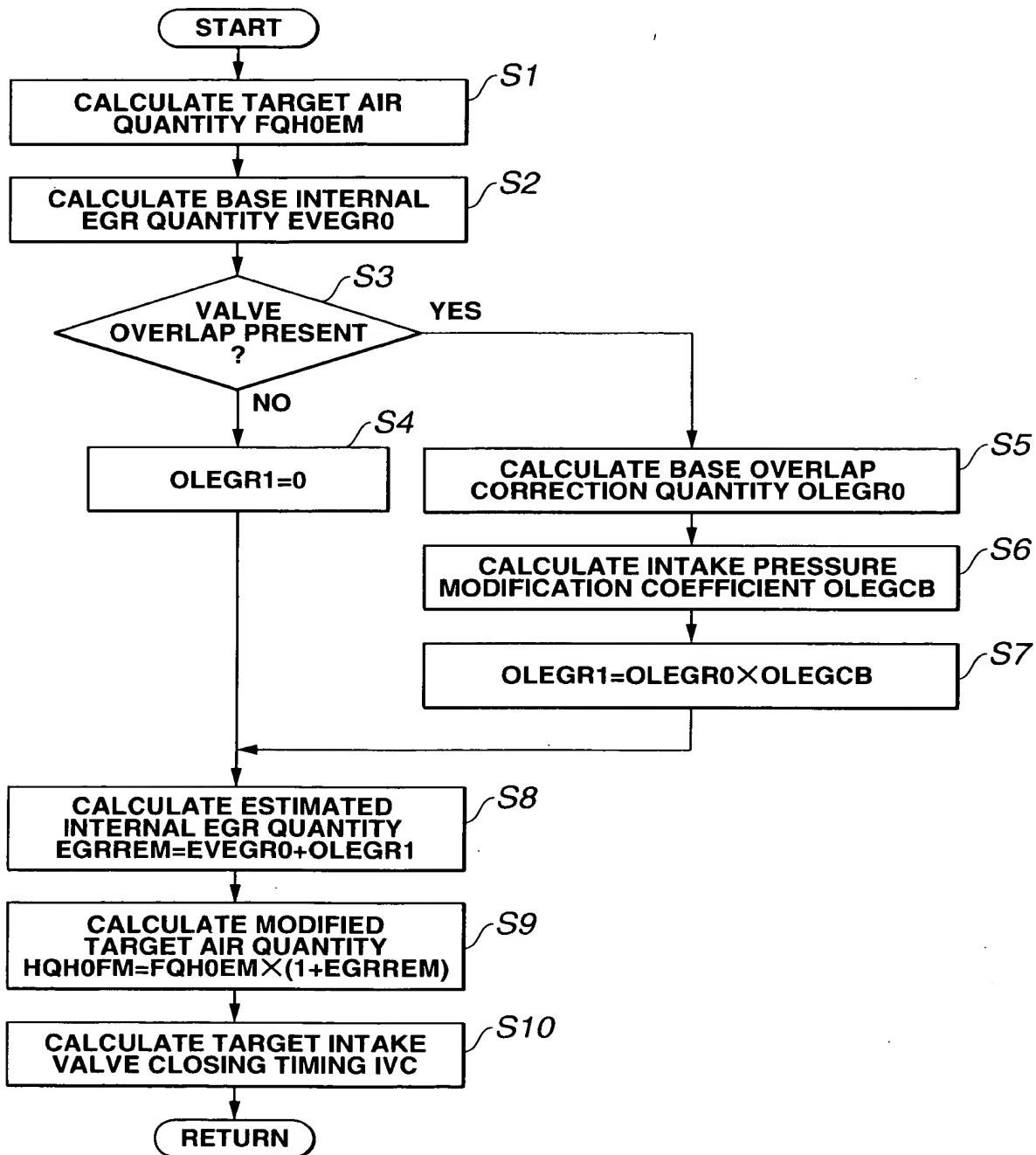


00012388-022610

APPROVED BY DRAFTSMAN	O.G. FIG. CLASS	SUBCLASS
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Title: INTERNAL EGR QUANTITY  
ESTIMATION, CYLINDER INTAKE AIR  
QUANTITY CALCULATION, VALVE TIMING  
CONTROL, AND IGNITION TIMING CONTROL  
Inventor(s): Takao KAWASAKI et al.  
Appl. No.: Unknown

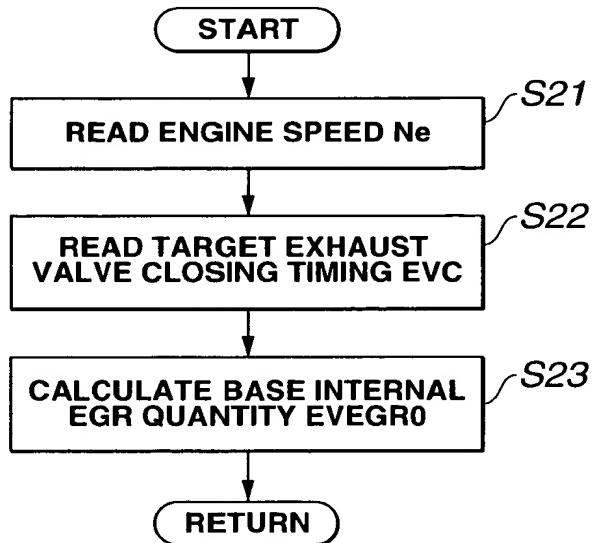
## FIG.3



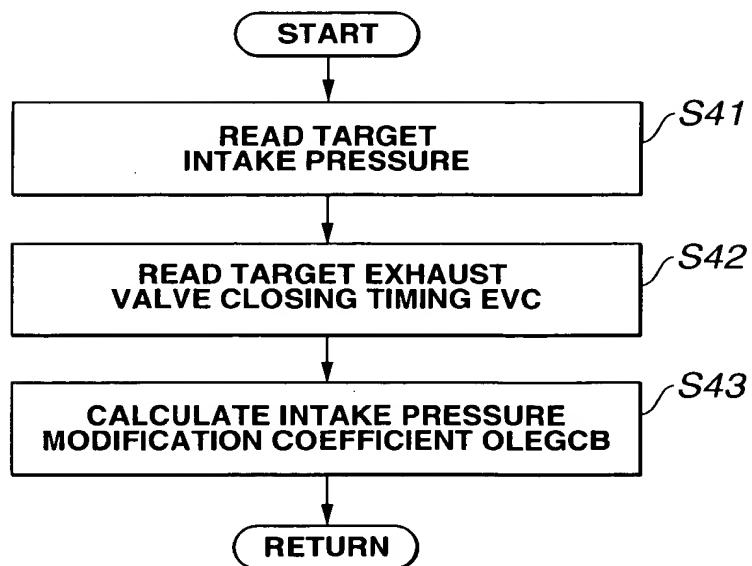
APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

Title: INTERNAL EGR QUANTITY  
ESTIMATION, CYLINDER INTAKE AIR  
QUANTITY CALCULATION, VALVE TIMING  
CONTROL, AND IGNITION TIMING CONTROL  
Inventor(s): Takao KAWASAKI et al.  
Appl. No.: Unknown

## FIG.4



## FIG.6

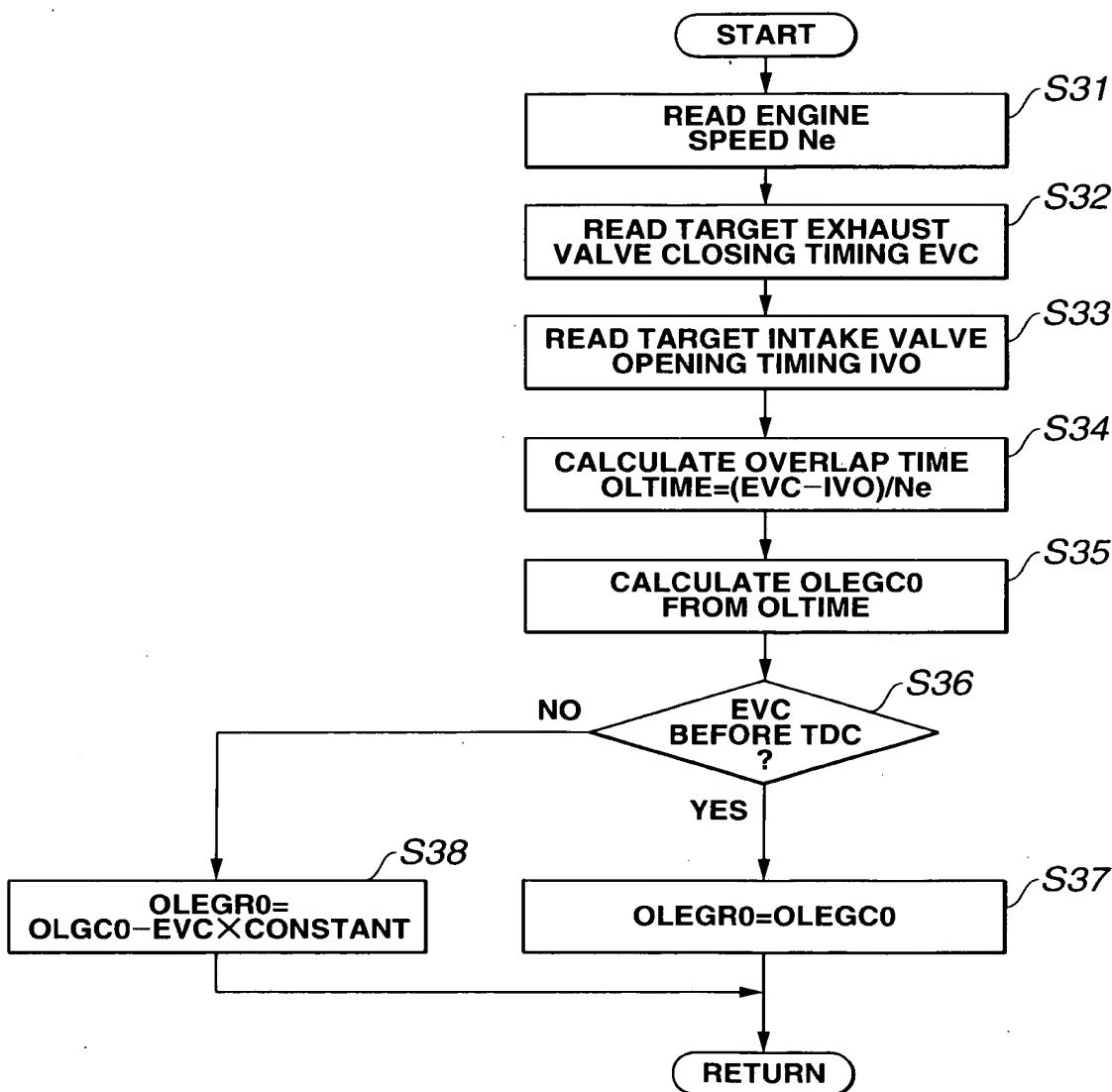


00042388-022604

APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

Title: INTERNAL EGR QUANTITY  
ESTIMATION, CYLINDER INTAKE AIR  
QUANTITY CALCULATION, VALVE TIMING  
CONTROL, AND IGNITION TIMING CONTROL  
Inventor(s): Takaо KAWASAKI et al.  
Appl. No.: Unknown

## FIG.5

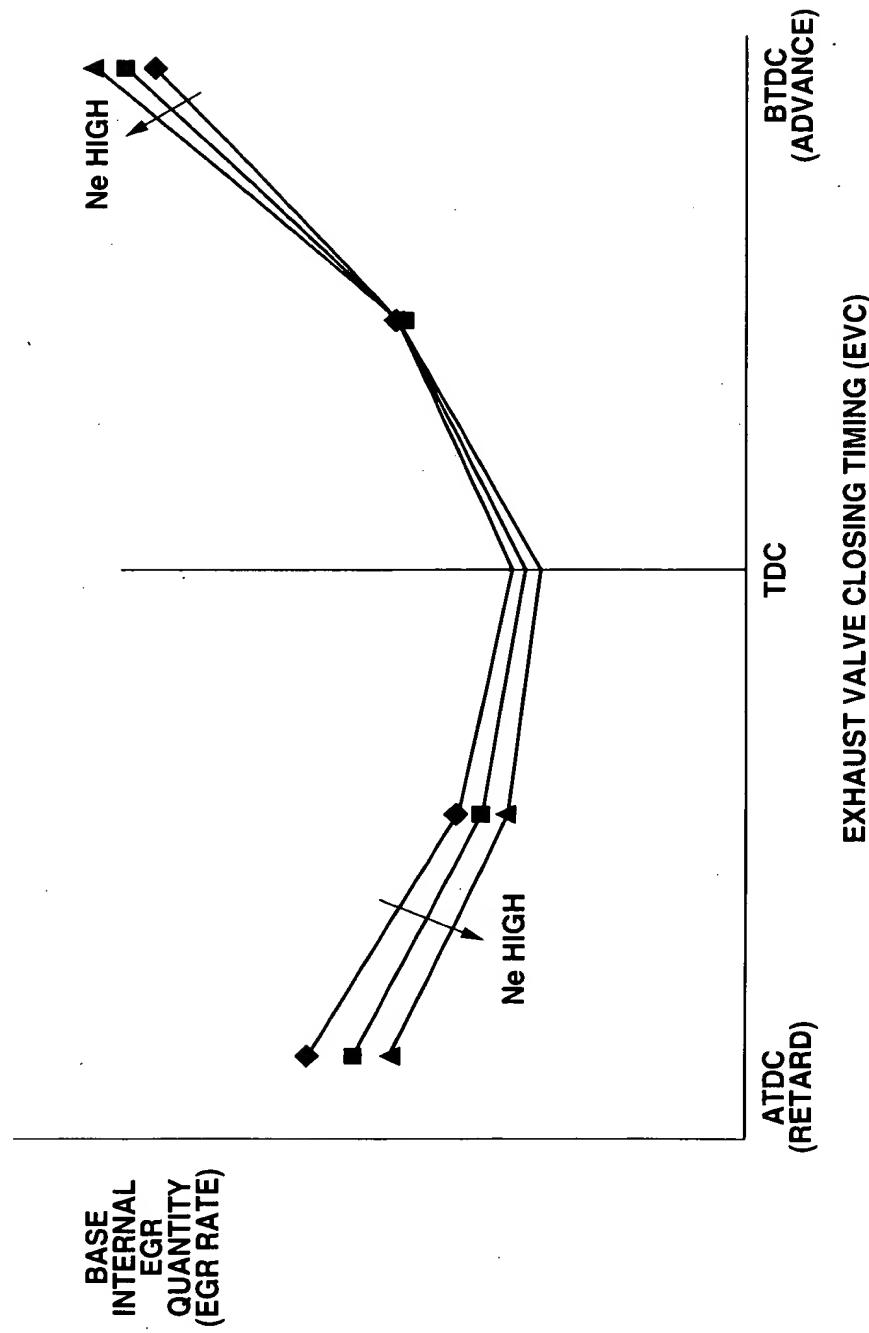


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APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

Title: INTERNAL EGR QUANTITY  
 ESTIMATION, CYLINDER INTAKE AIR  
 QUANTITY CALCULATION, VALVE TIMING  
 CONTROL, AND IGNITION TIMING CONTROL  
 Inventor(s): Takao KAWASAKI et al.  
 Appl. No.: Unknown

**FIG.7**



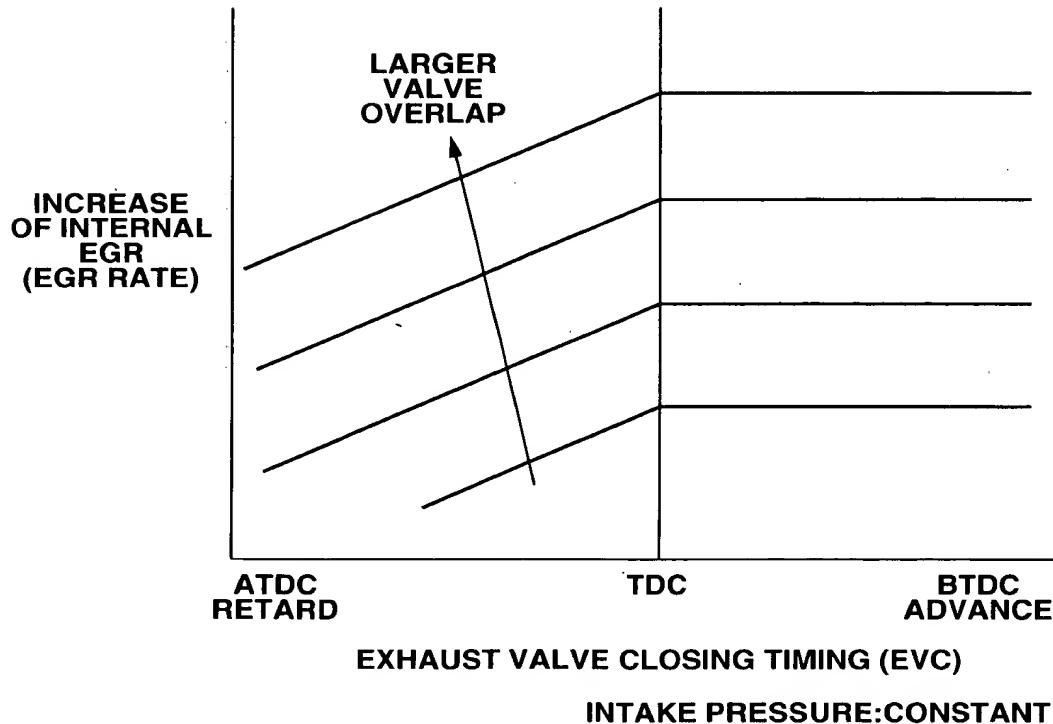
109240 88824660

APPROVED	O. G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

Title: INTERNAL EGR QUANTITY  
 ESTIMATION, CYLINDER INTAKE AIR  
 QUANTITY CALCULATION, VALVE TIMING  
 CONTROL, AND IGNITION TIMING CONTROL  
 Inventor(s): Takao KAWASAKI et al.  
 Appl. No.: Unknown

**FIG.8**

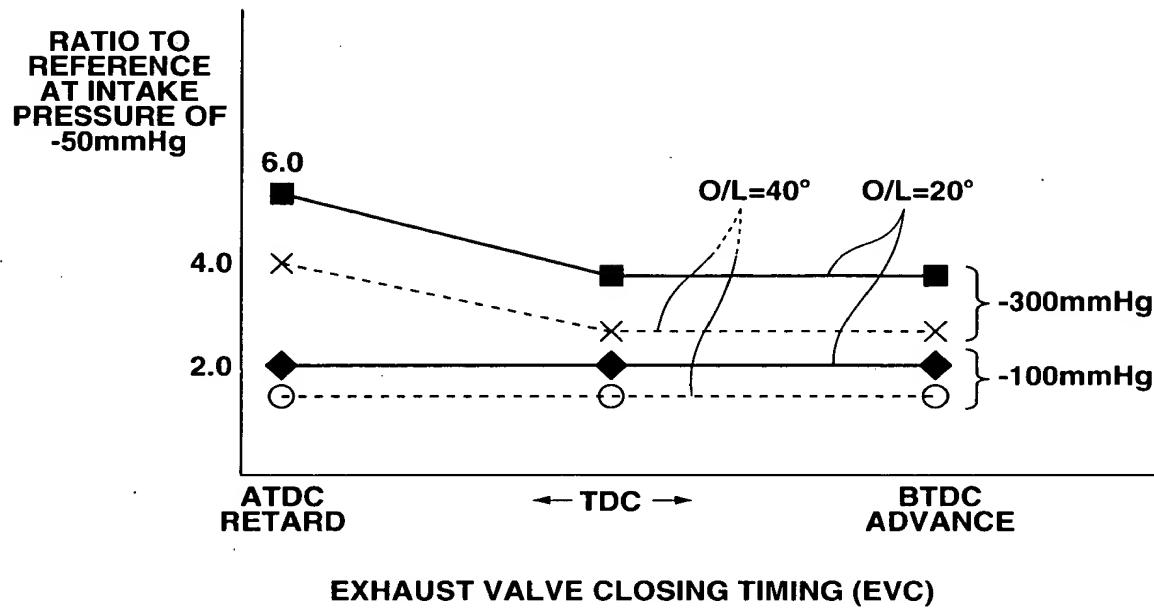
109240-83321660



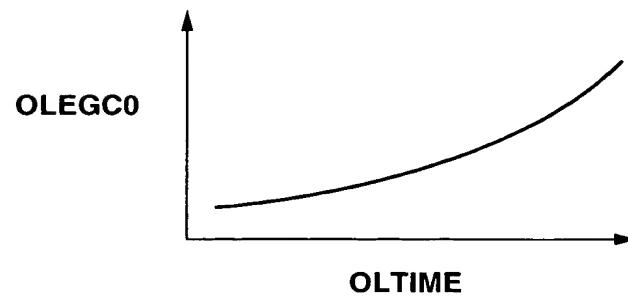
APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASSE

Title: INTERNAL EGR QUANTITY  
 ESTIMATION, CYLINDER INTAKE AIR  
 QUANTITY CALCULATION, VALVE TIMING  
 CONTROL, AND IGNITION TIMING CONTROL  
 Inventor(s): Takao KAWASAKI et al.  
 Appl. No.: Unknown

## FIG.9



## FIG.10

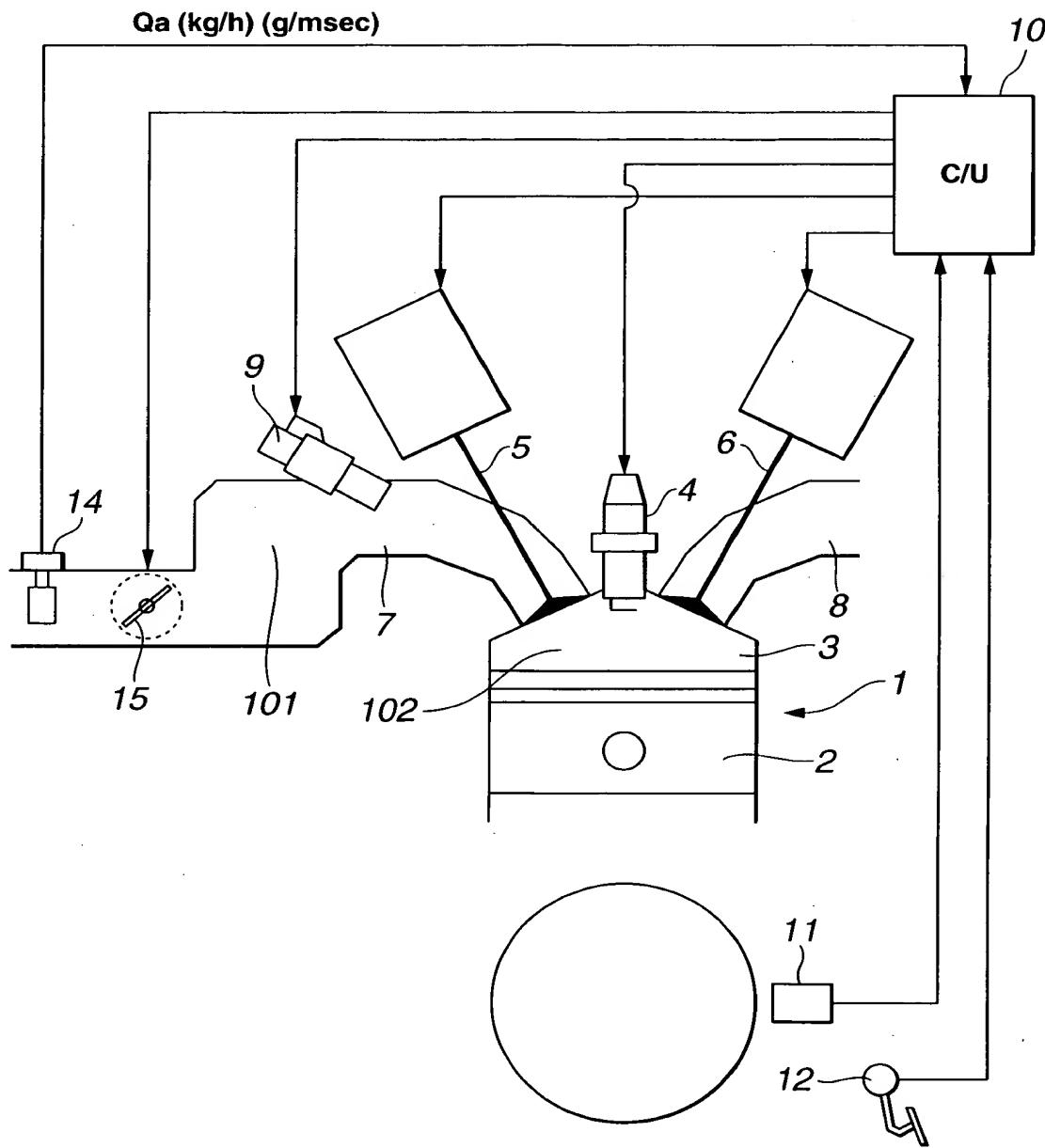


APPROVED	O. G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASSE

Title: INTERNAL EGR QUANTITY  
ESTIMATION, CYLINDER INTAKE AIR  
QUANTITY CALCULATION, VALVE TIMING  
CONTROL, AND IGNITION TIMING CONTROL  
Inventor(s): Takao KAWASAKI et al.  
Appl. No.: Unknown

# FIG.11

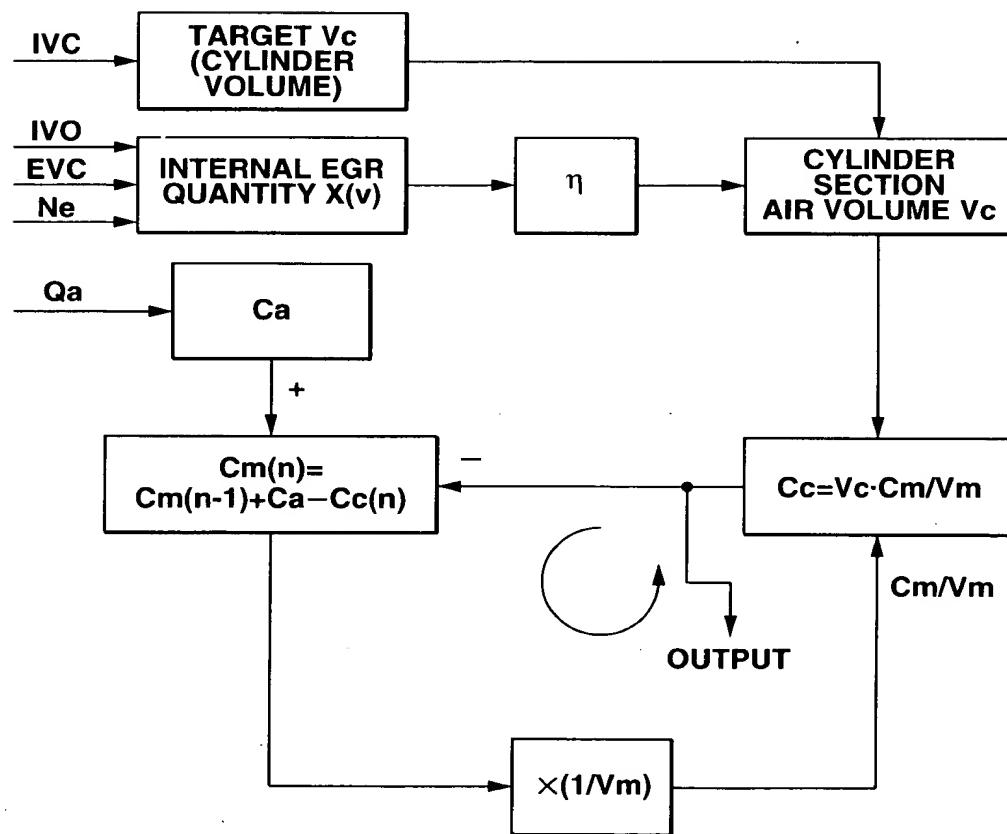
109270-20021060



APPROVED	O.G. FIG.
BY	CLASS SUBCLASS
DRAFTSMAN	

Title: INTERNAL EGR QUANTITY  
ESTIMATION, CYLINDER INTAKE AIR  
QUANTITY CALCULATION, VALVE TIMING  
CONTROL, AND IGNITION TIMING CONTROL  
Inventor(s): Takao KAWASAKI et al.  
Appl. No.: Unknown

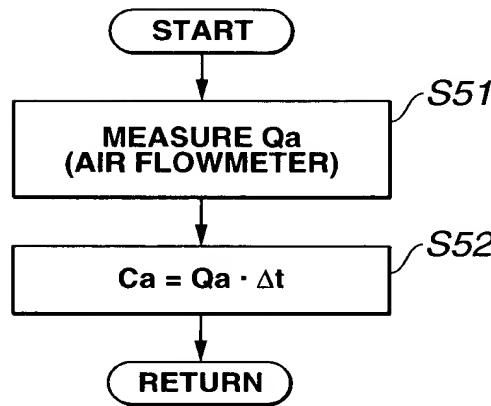
# FIG.12



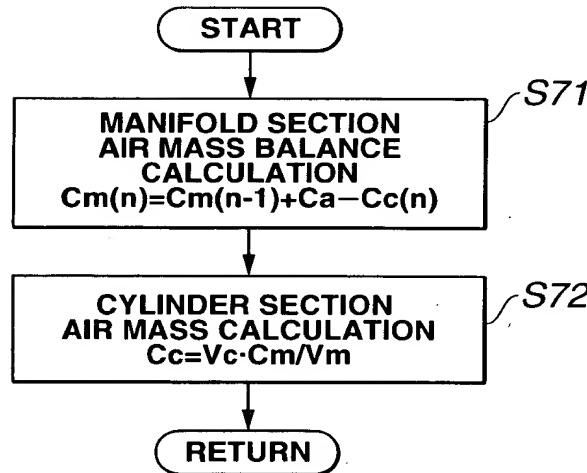
APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

Title: INTERNAL EGR QUANTITY  
ESTIMATION, CYLINDER INTAKE AIR  
QUANTITY CALCULATION, VALVE TIMING  
CONTROL, AND IGNITION TIMING CONTROL  
Inventor(s): Takao KAWASAKI et al.  
Appl. No.: Unknown

## FIG.13



## FIG.15

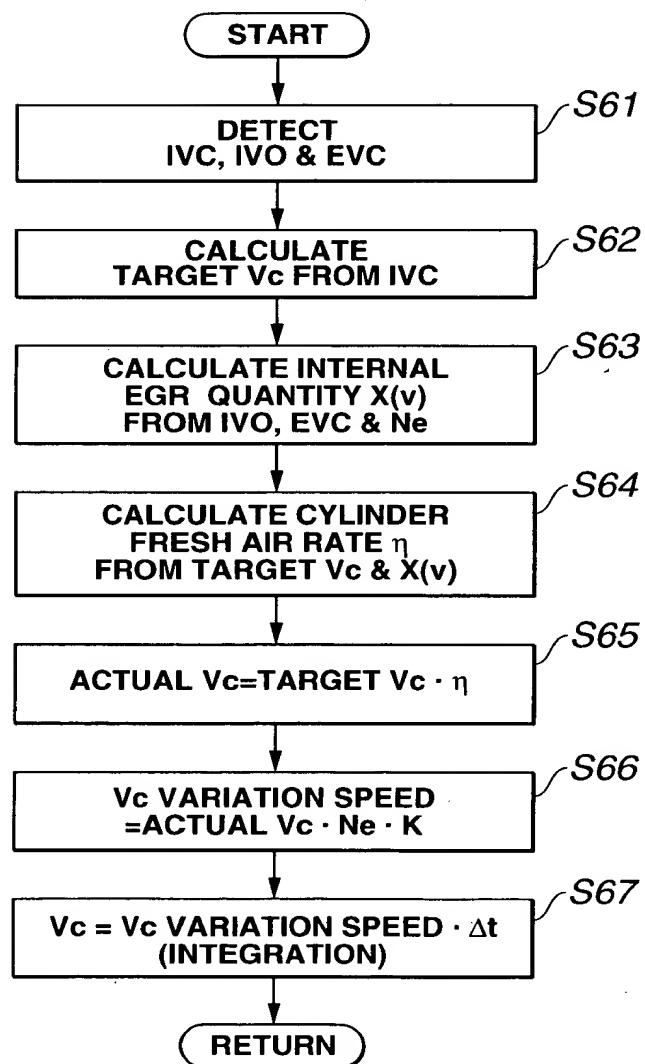


109240-233460

APPROVED	O. O. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASSE

Title: INTERNAL EGR QUANTITY  
ESTIMATION, CYLINDER INTAKE AIR  
QUANTITY CALCULATION, VALVE TIMING  
CONTROL, AND IGNITION TIMING CONTROL  
Inventor(s): Takao KAWASAKI et al.  
Appl. No.: Unknown

# FIG.14

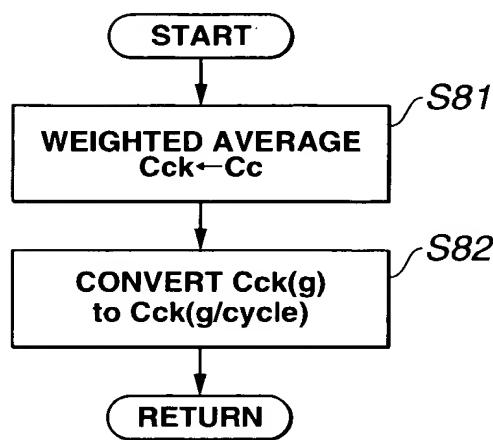


000012345678901234567890

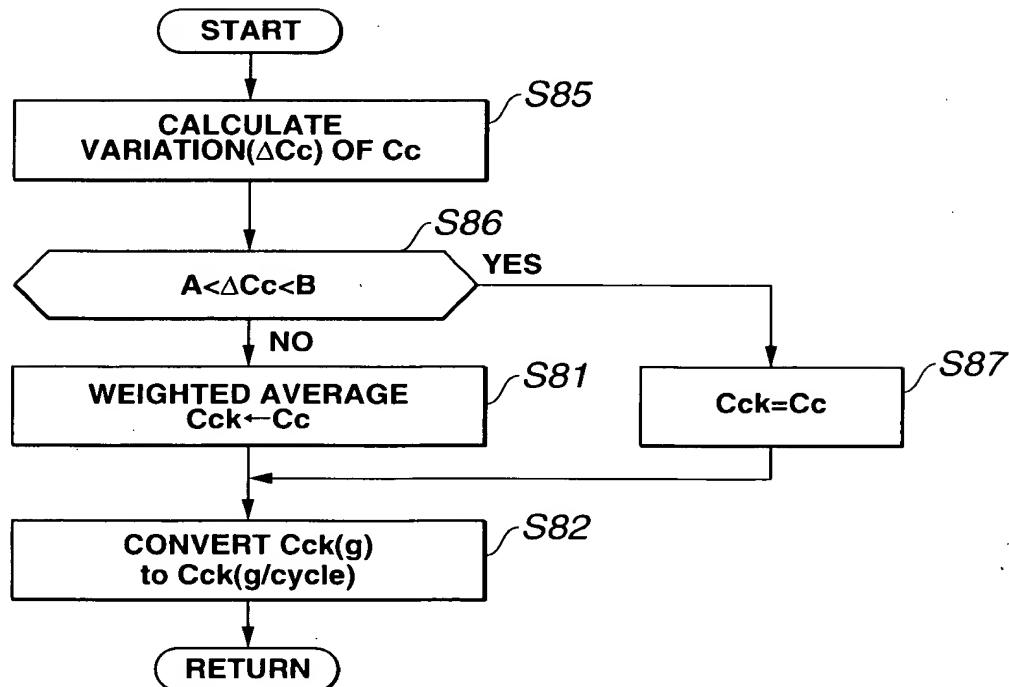
APPROVED	O.G. FIG.
BY	CLAS
DRAFTSMAN	SUBCLAS

Title: INTERNAL EGR QUANTITY  
 ESTIMATION, CYLINDER INTAKE AIR  
 QUANTITY CALCULATION, VALVE TIMING  
 CONTROL, AND IGNITION TIMING CONTROL  
 Inventor(s): Takao KAWASAKI et al.  
 Appl. No.: Unknown

# FIG.16



# FIG.17



APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

Title: INTERNAL EGR QUANTITY  
ESTIMATION, CYLINDER INTAKE AIR  
QUANTITY CALCULATION, VALVE TIMING  
CONTROL, AND IGNITION TIMING CONTROL  
Inventor(s): Takao KAWASAKI et al.  
Appl. No.: Unknown

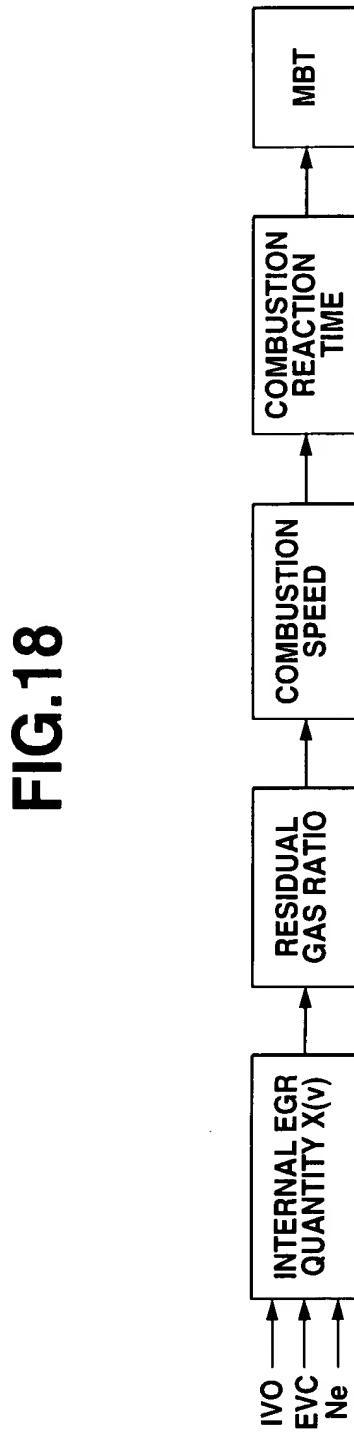


FIG. 18